



Manage SnapMirror relationships

REST API reference

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Manage SnapMirror relationships

SnapMirror relationships endpoint overview

Overview

This API manages asynchronous extended data protection (XDP) relationships for FlexVols, FlexGroups, or SVMs. It is also used to create a synchronous relationship between FlexVol volumes, which provides zero RPO data protection. It supports the SnapMirror policy types "mirror-vault", "sync-mirror", and "strict-sync-mirror". You can create a relationship between the source and destination which can be used to transfer APIs to perform SnapMirror "restore" operations.

To create FlexVol or FlexGroup SnapMirror relationships, the source volume must be in the "online" state and be a read-write type; the destination volume must be in the "online" state and be a data protection type. To create SnapMirror relationships between SVMs, the source SVM must be of subtype "default" and the destination SVM of subtype "dp_destination". Additionally, SVMs must be peered before a relationship can be established between them. The SnapMirror functionality is subdivided into relationship APIs and transfer APIs:

- SnapMirror relationship APIs are used to create and manage the SnapMirror relationships.
- SnapMirror transfer APIs are used to manage data transfers.

Retrieve information for SnapMirror relationships

GET /snapmirror/relationships

Retrieves information for SnapMirror relationships whose destination endpoints are in the current SVM or the current cluster, depending on the cluster context.

Related ONTAP commands

- `snapmirror show`
- `snapmirror list-destinations`

Examples

The following examples show how to retrieve the list of SnapMirror relationships and the list of SnapMirror destinations.

1. Retrieving the list of SnapMirror relationships. This API must be run on the cluster containing the destination endpoint.

```
GET "/api/snapmirror/relationships/"
```

1. Retrieving the list of SnapMirror destinations on source. This must be run on the cluster containing the source endpoint.

```
GET "/api/snapmirror/relationships/?list_destinations_only=true"
```

Learn more

- [DOC /snapmirror/relationships](#)

Parameters

| Name | Type | In | Required | Description |
|----------------------------|---------|-------|----------|---------------------------------------------------------|
| list_destinations_only | boolean | query | False | Set to true to show relationships from the source only. |
| exported_snapshot | string | query | False | Filter by exported_snapshot |
| source.path | string | query | False | Filter by source.path |
| source.cluster.name | string | query | False | Filter by source.cluster.name |
| source.cluster.uuid | string | query | False | Filter by source.cluster.uuid |
| source.svm.uuid | string | query | False | Filter by source.svm.uuid |
| source.svm.name | string | query | False | Filter by source.svm.name |
| lag_time | string | query | False | Filter by lag_time |
| transfer.bytes_transferred | integer | query | False | Filter by transfer.bytes_transferred |
| transfer.uuid | string | query | False | Filter by transfer.uuid |
| transfer.state | string | query | False | Filter by transfer.state |
| healthy | boolean | query | False | Filter by healthy |
| state | string | query | False | Filter by state |
| uuid | string | query | False | Filter by uuid |
| restore | boolean | query | False | Filter by restore |

| Name | Type | In | Required | Description |
|-----------------------------|---------------|-------|----------|---------------------------------------|
| policy.type | string | query | False | Filter by policy.type |
| policy.name | string | query | False | Filter by policy.name |
| policy.uuid | string | query | False | Filter by policy.uuid |
| destination.path | string | query | False | Filter by destination.path |
| destination.cluster.name | string | query | False | Filter by destination.cluster.name |
| destination.cluster.uuid | string | query | False | Filter by destination.cluster.uuid |
| destination.svm.uuid | string | query | False | Filter by destination.svm.uuid |
| destination.svm.name | string | query | False | Filter by destination.svm.name |
| unhealthy_reason.code | integer | query | False | Filter by unhealthy_reason.code |
| unhealthy_reason.parameters | string | query | False | Filter by unhealthy_reason.parameters |
| unhealthy_reason.message | string | query | False | Filter by unhealthy_reason.message |
| fields | array[string] | query | False | Specify the fields to return. |
| max_records | integer | query | False | Limit the number of records returned. |

| Name | Type | In | Required | Description |
|----------------|---------------|-------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| return_records | boolean | query | False | The default is true for GET calls. When set to false, only the number of records is returned. |
| return_timeout | integer | query | False | The number of seconds to allow the call to execute before returning. When iterating over a collection, the default is 15 seconds. ONTAP returns earlier if either max records or the end of the collection is reached. |
| order_by | array[string] | query | False | Order results by specified fields and optional [asc |

Response

Status: 200, Ok

| Name | Type | Description |
|-------------|--------------------------------------------------|-------------------|
| _links | _links | |
| num_records | integer | Number of records |
| records | array[snapmirror_relationship] | |

Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "records": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "destination": {
        "cluster": {
          "_links": {
            "self": {
              "href": "/api/resourcelink"
            }
          },
          "name": "cluster1",
          "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
        },
        "path": "svm1:volume1",
        "svm": {
          "_links": {
            "self": {
              "href": "/api/resourcelink"
            }
          },
          "name": "svm1",
          "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
        }
      },
      "exported_snapshot": "string",
      "lag_time": "PT8H35M42S",
      "policy": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        }
      }
    }
  ]
}
```



```

    },
    "name": "Asynchronous",
    "type": "string",
    "uuid": "4ea7a442-86d1-11e0-ae1c-123478563412"
  },
  "restore_to_snapshot": "string",
  "source": {
    "cluster": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "cluster1",
      "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
    },
    "path": "svm1:volume1",
    "svm": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "svm1",
      "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
    }
  },
  "state": "snapmirrored",
  "transfer": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    }
  },
  "state": "string",
  "uuid": "4ea7a442-86d1-11e0-ae1c-123478563412"
},
"unhealthy_reason": [
  {
    "code": "6621444",
    "message": "Failed to complete update operation on one or
more item relationships.",
    "parameters": []
  },
  {
    "code": "6621445",

```

```
        "message": "Group Update failed",
        "parameters": []
      }
    ],
    "uuid": "4ea7a442-86d1-11e0-ae1c-123478563412"
  }
]
```

Error

Status: Default

ONTAP Error Response codes

| Error code | Description |
|------------|---------------------------------------------------------------|
| 13303825 | Could not retrieve information for the SnapMirror policy type |
| 13303817 | Unknown value for the Snapmirror State |

| Name | Type | Description |
|-------|-------|-------------|
| error | error | |

Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

href

| Name | Type | Description |
|------|--------|-------------|
| href | string | |

_links

| Name | Type | Description |
|------|----------------------|-------------|
| next | href | |
| self | href | |

_links

| Name | Type | Description |
|------|----------------------|-------------|
| self | href | |

storage_service

| Name | Type | Description |
|---------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| enabled | boolean | This property indicates whether to create the destination endpoint using storage service. |
| enforce_performance | boolean | Optional property to enforce storage service performance on the destination endpoint when the destination endpoint is used for read-write operations. This property is applicable to FlexVol volume and FlexGroup volume endpoints. |

| Name | Type | Description |
|------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| name | string | <p>Optional property to specify the storage service name for the destination endpoint. This property is considered when the property "create_destination.storage_service.enabled" is set to "true". When the property "create_destination.storage_service.enabled" is set to "true" and the "create_destination.storage_service.name" for the endpoint is not specified, then ONTAP selects the highest storage service available on the cluster to provision the destination endpoint. This property is applicable to FlexVol volume and FlexGroup volume endpoints.</p> <ul style="list-style-type: none"> enum: ["extreme", "performance", "value"] |

tiering

| Name | Type | Description |
|--------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| policy | string | <p>Optional property to specify the destination endpoint's tiering policy when "create_destination.tiering.supported" is set to "true". This property is applicable to FlexVol volume and FlexGroup volume endpoints. This property determines whether the user data blocks of the destination endpoint in a FabricPool will be tiered to the cloud store when they become cold. FabricPool combines flash (performance tier) with a cloud store into a single aggregate. Temperature of the destination endpoint volume blocks increases if they are accessed frequently and decreases when they are not. all &dash; This policy allows tiering of both destination endpoint Snapshot copies and the user transferred data blocks to the cloud store as soon as possible by ignoring the temperature on the volume blocks. This tiering policy is not applicable for synchronous relationships. auto &dash; This policy allows tiering of both destination endpoint Snapshot copies and the active file system user data to the cloud store none &dash; Destination endpoint volume blocks will not be tiered to the cloud store. snapshot_only &dash; This policy allows tiering of only the destination endpoint volume Snapshot copies not associated with the active file system. The default tiering policy is "snapshot_only" for a FlexVol volume and "none" for a FlexGroup volume.</p> |

| Name | Type | Description |
|-----------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| supported | boolean | Optional property to enable provisioning of the destination endpoint volumes on FabricPool aggregates. This property is applicable to FlexVol volume and FlexGroup volume endpoints. Only FabricPool aggregates are used if this property is set to "true" and only non FabricPool aggregates are used if this property is set to "false". Tiering support for a FlexGroup volume can be changed by moving all of the constituents to the required aggregates. Note that in order to tier data, not only do the destination endpoint volumes need to support tiering by using FabricPools, the "create_destination.tiering.policy" must not be "none". A destination endpoint that uses FabricPools but has a tiering "policy" of "none" supports tiering but will not tier any data. |

snapmirror_destination_creation

Use this object to provision the destination endpoint when establishing a SnapMirror relationship for a FlexVol volume, FlexGroup volume, or SVM. Given a source endpoint, the destination endpoint is provisioned in the SVM specified in the "destination.path" property. The SVM destination endpoint can only be provisioned on the local cluster. To provision the SVM destination endpoint use the optional "source.cluster.name" property to specify the remote cluster name or use the optional "source.cluster.uuid" property to specify the remote cluster UUID. When "create_destination.enabled" option is specified while making a POST for a SnapMirror relationship, the relationship can be automatically initialized by setting the "state" either to "snapmirrored" when the policy is of type "async" or to "in_sync" when the policy is of type "sync". The "destination.path" property must specify the destination endpoint path. For example, for FlexVol volume and FlexGroup volume, the "destination.path" can be specified as <destination-svm-name:dp-volume-name>, and for SVM data protection, the "destination.path" must be specified as <destination-svm-name:>. For a FlexVol volume or FlexGroup volume destination endpoint, the properties in this object can be specified either from the source or destination cluster. For an SVM destination endpoint, the properties in this object can be specified from the destination cluster. This object is not supported for non ONTAP endpoints.</destination-svm-name:></destination-svm-name:dp-volume-name>

| Name | Type | Description |
|-----------------|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| enabled | boolean | Optional property to create the destination endpoint when establishing a SnapMirror relationship. It is assumed to be "false" if no other property is set and assumed to be "true" if any other property is set. |
| storage_service | storage_service | |
| tiering | tiering | |

cluster

| Name | Type | Description |
|--------|------------------------|-------------|
| _links | _links | |
| name | string | |
| uuid | string | |

svm

| Name | Type | Description |
|--------|------------------------|-----------------------------------|
| _links | _links | |
| name | string | The name of the SVM. |
| uuid | string | The unique identifier of the SVM. |

snapmirror_endpoint

Endpoint of a SnapMirror relationship. For a GET request, the property "cluster" is populated when the endpoint is on a remote cluster. A POST request to create the destination SVM endpoint or to establish an SVM DR relationship must have the property "cluster" populated with the remote cluster details. A POST request to create the destination FlexVol volume or FlexGroup volume endpoints can optionally specify the "cluster" property. A POST request to establish a SnapMirror relationship when the source SVM and the destination SVM are not peered, must specify the "cluster" property.

| Name | Type | Description |
|---------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| cluster | cluster | |
| path | string | ONTAP FlexVol/FlexGroup - svm1:volume1 ONTAP SVM - svm1: <ul style="list-style-type: none"> • example: svm1:volume1 • readCreate: 1 |

| Name | Type | Description |
|------|---------------------|-------------|
| svm | svm | |

policy

Basic policy information of the relationship.

| Name | Type | Description |
|--------|------------------------|-------------|
| _links | _links | |
| name | string | |
| type | string | |
| uuid | string | |

transfer

Basic information on the current transfer.

| Name | Type | Description |
|-------------------|------------------------|--------------------|
| _links | _links | |
| bytes_transferred | integer | Bytes transferred. |
| state | string | |
| uuid | string | |

snapmirror_error

SnapMirror error

| Name | Type | Description |
|------------|---------------|----------------------------------|
| code | integer | Error code |
| message | string | Error message |
| parameters | array[string] | Parameters for the error message |

snapmirror_relationship

SnapMirror relationship information

| Name | Type | Description |
|--------|------------------------|-------------|
| _links | _links | |

| Name | Type | Description |
|-------------------|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| destination | snapmirror_endpoint | Endpoint of a SnapMirror relationship. For a GET request, the property "cluster" is populated when the endpoint is on a remote cluster. A POST request to create the destination SVM endpoint or to establish an SVM DR relationship must have the property "cluster" populated with the remote cluster details. A POST request to create the destination FlexVol volume or FlexGroup volume endpoints can optionally specify the "cluster" property. A POST request to establish a SnapMirror relationship when the source SVM and the destination SVM are not peered, must specify the "cluster" property. |
| exported_snapshot | string | Snapshot copy exported to clients on destination. |
| healthy | boolean | Is the relationship healthy? |
| lag_time | string | Time since the exported Snapshot copy was created. |
| policy | policy | Basic policy information of the relationship. |
| preserve | boolean | Set to true on resync to preserve Snapshot copies on the destination that are newer than the latest common Snapshot copy. This property is applicable only for relationships with FlexGroup or FlexVol endpoints and when the PATCH state is being changed to "snapmirrored". |
| quick_resync | boolean | Set to true to reduce resync time by not preserving storage efficiency. This property is applicable only for relationships with FlexVol endpoints and when the PATCH state is being changed to "snapmirrored". |

| Name | Type | Description |
|---------------------|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| recover_after_break | boolean | Set to true to recover from a failed SnapMirror break operation on a FlexGroup relationship. This restores all destination FlexGroup constituents to the latest Snapshot copy, and any writes to the read-write constituents are lost. This property is applicable only for SnapMirror relationships with FlexGroup endpoints and when the PATCH state is being changed to "broken_off". |
| restore | boolean | Set to true to create a relationship for restore. To trigger restore-transfer, use transfers POST on the restore relationship. |
| restore_to_snapshot | string | Specifies the Snapshot copy to restore to on the destination during the break operation. This property is applicable only for SnapMirror relationships with FlexVol endpoints and when the PATCH state is being changed to "broken_off". |
| source | snapmirror_endpoint | Endpoint of a SnapMirror relationship. For a GET request, the property "cluster" is populated when the endpoint is on a remote cluster. A POST request to create the destination SVM endpoint or to establish an SVM DR relationship must have the property "cluster" populated with the remote cluster details. A POST request to create the destination FlexVol volume or FlexGroup volume endpoints can optionally specify the "cluster" property. A POST request to establish a SnapMirror relationship when the source SVM and the destination SVM are not peered, must specify the "cluster" property. |

| Name | Type | Description |
|------------------|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| state | string | State of the relationship. To initialize the relationship, PATCH the state to "snapmirrored" for relationships with a policy of type "async" or "in-sync" for relationships with a policy of type "sync". To break the relationship, PATCH the state to "broken_off". To resync the broken relationship, PATCH the state to "snapmirrored" for relationships with a policy of type "async" or "in_sync" for relationships with a policy of type "sync". To pause the relationship, suspending further transfers, PATCH the state to "paused". To resume transfers for a paused relationship, PATCH the state to "snapmirrored" or "in_sync". The entries "in_sync", "out_of_sync", and "synchronizing" are only applicable to relationships with a policy of type "sync". A PATCH call on the state change only triggers the transition to the specified state. You must poll on the "state", "healthy" and "unhealthy_reason" properties using a GET request to determine if the transition is successful. To automatically initialize the relationship when specifying "create_destination", set the state to "snapmirrored" for relationships with a policy of type "async" or "in_sync" for relationships with a policy of type "sync". |
| transfer | transfer | Basic information on the current transfer. |
| unhealthy_reason | array[snapmirror_error] | Reason the relationship is not healthy. It is a concatenation of up to four levels of error messages. |
| uuid | string | |

error_arguments

| Name | Type | Description |
|---------|--------|------------------|
| code | string | Argument code |
| message | string | Message argument |

error

| Name | Type | Description |
|-----------|------------------------------------------|---------------------------------------------|
| arguments | array[error_arguments] | Message arguments |
| code | string | Error code |
| message | string | Error message |
| target | string | The target parameter that caused the error. |

Create a SnapMirror relationship

POST /snapmirror/relationships

Creates a SnapMirror relationship. This API can optionally provision the destination endpoint when it does not exist. This API must be executed on the cluster containing the destination endpoint unless the destination endpoint is being provisioned. When the destination endpoint is being provisioned, this API can also be executed from the cluster containing the source endpoint.

Required properties

- `source.path` - Path to the source endpoint of the SnapMirror relationship.
- `destination.path` - Path to the destination endpoint of the SnapMirror relationship.

Recommended optional properties

- `policy.name` or `policy.uuid` - Policy governing the SnapMirror relationship.
- `state` - Set the state to "snapmirrored" to automatically initialize the relationship.
- `create_destination.enabled` - Enable this property to provision the destination endpoint.

Default property values

If not specified in POST, the following default property values are assigned:

- `policy.name` - *Asynchronous*
- `restore` - *false*

- `create_destination.tiering.policy` - *snapshot_only* (when `create_destination.tiering.supported` is *true* for FlexVol volume)
- `create_destination.tiering.policy` - *none* (when `create_destination.tiering.supported` is *true* for FlexGroup volume)
- `create_destination.storage_service.enforce_performance` - *false*
- `source.ipspace` - *Default*
- `destination.ipspace` - *Default*

Related ONTAP commands

- `snapmirror create`
- `snapmirror protect`

Examples

The following examples show how to create FlexVol, FlexGroup and SVM SnapMirror relationships. Note that the source SVM name should be the local name of the peer SVM.

Creating a FlexVol SnapMirror relationship of type XDP.

```
POST "/api/snapmirror/relationships/" '{"source": {"path":
"test_vserv_src:src_vol_rw"}, "destination": { "path":
"test_vserv_dst:dst_vol_rw"}}'
```

Creating a FlexGroup SnapMirror relationship of type XDP.

```
POST "/api/snapmirror/relationships/" '{"source": {"path":
"test_vserv_src:source_flexgrp"}, "destination": { "path":
"test_vserv_dst:dest_flexgrp"}}'
```

Creating a SVM SnapMirror relationship of type XDP.

```
POST "/api/snapmirror/relationships/" '{"source": { "path": "src_svm:"},
"destination": { "path": "dst_svm:"}}'
```

Creating a SnapMirror relationship in order to restore from a destination.

```
POST "/api/snapmirror/relationships/" '{"source": {"path":
"test_vserv_src:src_vol_rw"}, "destination": { "path":
"test_vserv_dst:dst_vol_rw"}, "restore": "true"}'
```

Creating a FlexVol SnapMirror relationship of type XDP.

```
POST "/api/snapmirror/relationships/" '{"source": {"path":
"test_vserv_src:src_vol_rw"}, "destination": { "path":
"test_vserv_dst:dst_vol_rw"}, "create_destination": { "enable": "true" }}'
```

```
POST "/api/snapmirror/relationships/" '{"source": {"path":
"test_vserv_src:src_vol_rw"}, "destination": { "path":
"test_vserv_dst:dst_vol_rw"}, "create_destination": { "enable": "true",
"tiering": { "supported": "true", "policy": "auto" } } }'
```

```
POST "/api/snapmirror/relationships/" '{"source": {"path":
"test_vserv_src:src_vol_rw"}, "destination": { "path":
"test_vserv_dst:dst_vol_rw"}, "create_destination": { "enable": "true",
"storage_service": { "enabled": "true", "name": "extreme",
"enforce_performance": "true" } } }'
```

```
POST "/api/snapmirror/relationships/" '{"source": {"path": "src_svm:",
"cluster": { "name": "cluster_src" }}, "destination": { "path":
"dst_svm:"}, "create_destination": { "enable": "true" }}'
```

Learn more

- [DOC /snapmirror/relationships](#)

Parameters

| Name | Type | In | Required | Description |
|----------------|---------|-------|----------|-----------------------------------------------------------------|
| return_records | boolean | query | False | The default is false. If set to true, the records are returned. |

| Name | Type | In | Required | Description |
|----------------|---------|-------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| return_timeout | integer | query | False | The number of seconds to allow the call to execute before returning. When doing a POST, PATCH, or DELETE operation on a single record, the default is 0 seconds. This means that if an asynchronous operation is started, the server immediately returns HTTP code 202 (Accepted) along with a link to the job. If a non-zero value is specified for POST, PATCH, or DELETE operations, ONTAP waits that length of time to see if the job completes so it can return something other than 202. |
| validate_only | boolean | query | False | Validate the operation and its parameters, without actually performing the operation. |

Request Body

| Name | Type | Description |
|--------|------------------------|-------------|
| _links | _links | |

| Name | Type | Description |
|--------------------|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| create_destination | snapmirror_destination_creation | <p>Use this object to provision the destination endpoint when establishing a SnapMirror relationship for a FlexVol volume, FlexGroup volume, or SVM. Given a source endpoint, the destination endpoint is provisioned in the SVM specified in the "destination.path" property. The SVM destination endpoint can only be provisioned on the local cluster. To provision the SVM destination endpoint use the optional "source.cluster.name" property to specify the remote cluster name or use the optional "source.cluster.uuid" property to specify the remote cluster UUID. When "create_destination.enabled" option is specified while making a POST for a SnapMirror relationship, the relationship can be automatically initialized by setting the "state" either to "snapmirrored" when the policy is of type "async" or to "in_sync" when the policy is of type "sync". The "destination.path" property must specify the destination endpoint path. For example, for FlexVol volume and FlexGroup volume, the "destination.path" can be specified as <destination-SVM-name:dp-volume-name>, and for SVM data protection, the "destination.path" must be specified as &lt;destination-SVM-name:&gt;. For a FlexVol volume or FlexGroup volume destination endpoint, the properties in this object can be specified either from the source or destination cluster. For an SVM destination endpoint, the properties in this object can be specified from the destination cluster. This object is not supported for non ONTAP endpoints.</destination-SVM-name:dp-volume-name></p> <ul style="list-style-type: none"> • x-ntap-createOnly: true |

| Name | Type | Description |
|-------------------|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| destination | snapmirror_endpoint | Endpoint of a SnapMirror relationship. For a GET request, the property "cluster" is populated when the endpoint is on a remote cluster. A POST request to create the destination SVM endpoint or to establish an SVM DR relationship must have the property "cluster" populated with the remote cluster details. A POST request to create the destination FlexVol volume or FlexGroup volume endpoints can optionally specify the "cluster" property. A POST request to establish a SnapMirror relationship when the source SVM and the destination SVM are not peered, must specify the "cluster" property. |
| exported_snapshot | string | Snapshot copy exported to clients on destination. |
| healthy | boolean | Is the relationship healthy? |
| lag_time | string | Time since the exported Snapshot copy was created. |
| policy | policy | Basic policy information of the relationship. |
| preserve | boolean | Set to true on resync to preserve Snapshot copies on the destination that are newer than the latest common Snapshot copy. This property is applicable only for relationships with FlexGroup or FlexVol endpoints and when the PATCH state is being changed to "snapmirrored". |
| quick_resync | boolean | Set to true to reduce resync time by not preserving storage efficiency. This property is applicable only for relationships with FlexVol endpoints and when the PATCH state is being changed to "snapmirrored". |

| Name | Type | Description |
|---------------------|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| recover_after_break | boolean | Set to true to recover from a failed SnapMirror break operation on a FlexGroup relationship. This restores all destination FlexGroup constituents to the latest Snapshot copy, and any writes to the read-write constituents are lost. This property is applicable only for SnapMirror relationships with FlexGroup endpoints and when the PATCH state is being changed to "broken_off". |
| restore | boolean | Set to true to create a relationship for restore. To trigger restore-transfer, use transfers POST on the restore relationship. |
| restore_to_snapshot | string | Specifies the Snapshot copy to restore to on the destination during the break operation. This property is applicable only for SnapMirror relationships with FlexVol endpoints and when the PATCH state is being changed to "broken_off". |
| source | snapmirror_endpoint | Endpoint of a SnapMirror relationship. For a GET request, the property "cluster" is populated when the endpoint is on a remote cluster. A POST request to create the destination SVM endpoint or to establish an SVM DR relationship must have the property "cluster" populated with the remote cluster details. A POST request to create the destination FlexVol volume or FlexGroup volume endpoints can optionally specify the "cluster" property. A POST request to establish a SnapMirror relationship when the source SVM and the destination SVM are not peered, must specify the "cluster" property. |

| Name | Type | Description |
|------------------|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| state | string | State of the relationship. To initialize the relationship, PATCH the state to "snapmirrored" for relationships with a policy of type "async" or "in-sync" for relationships with a policy of type "sync". To break the relationship, PATCH the state to "broken_off". To resync the broken relationship, PATCH the state to "snapmirrored" for relationships with a policy of type "async" or "in_sync" for relationships with a policy of type "sync". To pause the relationship, suspending further transfers, PATCH the state to "paused". To resume transfers for a paused relationship, PATCH the state to "snapmirrored" or "in_sync". The entries "in_sync", "out_of_sync", and "synchronizing" are only applicable to relationships with a policy of type "sync". A PATCH call on the state change only triggers the transition to the specified state. You must poll on the "state", "healthy" and "unhealthy_reason" properties using a GET request to determine if the transition is successful. To automatically initialize the relationship when specifying "create_destination", set the state to "snapmirrored" for relationships with a policy of type "async" or "in_sync" for relationships with a policy of type "sync". |
| transfer | transfer | Basic information on the current transfer. |
| unhealthy_reason | array[snapmirror_error] | Reason the relationship is not healthy. It is a concatenation of up to four levels of error messages. |
| uuid | string | |

Example request

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "create_destination": {
    "storage_service": {
      "name": "string"
    },
    "tiering": {
      "policy": "string"
    }
  },
  "destination": {
    "cluster": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "cluster1",
      "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
    },
    "ipspace": "Default",
    "path": "svm1:volumel",
    "svm": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "svm1",
      "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
    }
  },
  "exported_snapshot": "string",
  "lag_time": "PT8H35M42S",
  "policy": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    }
  },
}
```

```

    "name": "Asynchronous",
    "type": "string",
    "uuid": "4ea7a442-86d1-11e0-ae1c-123478563412"
  },
  "restore_to_snapshot": "string",
  "source": {
    "cluster": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "cluster1",
      "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
    },
    "ipspace": "Default",
    "path": "svm1:volumel",
    "svm": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "svm1",
      "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
    }
  },
  "state": "snapmirrored",
  "transfer": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "state": "string",
    "uuid": "4ea7a442-86d1-11e0-ae1c-123478563412"
  },
  "unhealthy_reason": [
    {
      "code": "6621444",
      "message": "Failed to complete update operation on one or more
item relationships.",
      "parameters": []
    },
    {
      "code": "6621445",

```

```

    "message": "Group Update failed",
    "parameters": []
  }
],
"uuid": "4ea7a442-86d1-11e0-ae1c-123478563412"
}

```

Response

Status: 202, Accepted

| Name | Type | Description |
|------|--------------------------|-------------|
| job | job_link | |

Example response

```

{
  "job": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "uuid": "string"
  }
}

```

Error

Status: Default

ONTAP Error Response Codes

| Error Code | Description |
|------------|--------------------------------------------------------|
| 6620374 | Internal error. Failed to get SVM information. |
| 6620478 | Internal error. Failed to check SnapMirror capability. |
| 13303819 | Could not retrieve SnapMirror policy information. |
| 13303821 | Invalid SnapMirror policy UUID. |

| Error Code | Description |
|------------|----------------------------------------------------------------------------------------------------------------------------------------|
| 13303841 | This operation is not supported for SnapMirror relationships between these endpoints. |
| 13303852 | destination.path provided does not contain "\".\\\". |
| 13303853 | Restore relationships are not supported for SVM-DR endpoints. |
| 13303868 | Create of destination endpoint and SnapMirror relationship failed. |
| 13303869 | Creating a destination endpoint is not supported for restore relationships. |
| 13303870 | A tiering policy cannot be specified if tiering is not being set to supported. |
| 13303871 | Storage service properties cannot be specified if the storage service is not being enabled. |
| 13303872 | Specified property requires a later effective cluster version. |
| 13303873 | Specifying a state when creating a relationship is only supported when creating a destination endpoint. |
| 13303874 | Specified state is not supported when creating this relationship. |
| 13303875 | Destination aggregates do not have sufficient space for hosting copies of source volumes. |
| 13303876 | Destination cluster does not have composite aggregates. |
| 13303877 | Source or destination cluster must be specified. |
| 13303878 | The specified fields do not match. |
| 13303879 | Source cluster name or UUID is needed to provision a destination SVM on the local cluster. |
| 13303880 | Source cluster must be remote for provisioning a destination SVM on the local cluster. |
| 13303881 | Network validation failed. |
| 13303882 | SVM validation failed. |
| 13303883 | Encryption is not enabled on the destination cluster. |
| 13303887 | Synchronous SnapMirror relationships between FlexGroup volumes are not supported. |
| 13303888 | Synchronous SnapMirror relationships require an effective cluster version of 9.5 or later on both the source and destination clusters. |

| Error Code | Description |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 13303889 | Asynchronous SnapMirror relationships between FlexGroup volumes require an effective cluster version of 9.5 or later on both the source and destination clusters. |
| 13303890 | Asynchronous SnapMirror relationships between FlexVol volumes require an effective cluster version of 9.3, 9.5, or later on both the source and destination clusters. |
| 13303891 | Creating a destination endpoint with storage service requires an effective cluster version of 9.7 or later. |
| 13303892 | Fetching remote information from the destination cluster failed. |
| 13303893 | Updating job description failed. |
| 13303894 | Destination volume name is invalid. It must contain the source volume name and have a suffix when creating a destination endpoint on a cluster with an effective cluster version of 9.6 or earlier. |
| 13303895 | Operation on the remote destination cluster is not supported. |
| 13303916 | FlexGroup volumes are not supported on SnapLock aggregates. |
| 13303918 | No suitable destination aggregate type is available. |
| 13303919 | Only FabricPool enabled aggregates are available on the destination. |
| 13303920 | Only SnapLock aggregates are available on the destination. FlexGroup volumes are not supported on SnapLock aggregates. |
| 13303921 | Unable to retrieve the SnapMirror capabilities of the destination cluster. |
| 13303922 | Specified source SVM is not a data SVM. |
| 13303923 | Specified destination SVM is not a data SVM. |
| 13303924 | Source SVM has an invalid Snapshot copy policy. |
| 13303925 | SnapMirror validation has failed. |
| 13303930 | The specified tiering policy is not supported for destination volumes of Synchronous relationships. |
| 13303938 | Fetching information from the local cluster failed. |
| 13303939 | Could not create an SVM peer relationship. |

| Error Code | Description |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 13303944 | An SVM-DR relationship is not supported because the source SVM has CIFS configured and the associated SnapMirror policy has either the identity_preservation property not set or set to exclude_network_and_protocol_config. |

| Name | Type | Description |
|-------|-------|-------------|
| error | error | |

Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

href

| Name | Type | Description |
|------|--------|-------------|
| href | string | |

_links

| Name | Type | Description |
|------|----------------------|-------------|
| self | href | |

storage_service

| Name | Type | Description |
|---------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| enabled | boolean | This property indicates whether to create the destination endpoint using storage service. |
| enforce_performance | boolean | Optional property to enforce storage service performance on the destination endpoint when the destination endpoint is used for read-write operations. This property is applicable to FlexVol volume and FlexGroup volume endpoints. |

| Name | Type | Description |
|------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| name | string | <p>Optional property to specify the storage service name for the destination endpoint. This property is considered when the property "create_destination.storage_service.enabled" is set to "true". When the property "create_destination.storage_service.enabled" is set to "true" and the "create_destination.storage_service.name" for the endpoint is not specified, then ONTAP selects the highest storage service available on the cluster to provision the destination endpoint. This property is applicable to FlexVol volume and FlexGroup volume endpoints.</p> <ul style="list-style-type: none"> enum: ["extreme", "performance", "value"] |

tiering

| Name | Type | Description |
|--------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| policy | string | <p>Optional property to specify the destination endpoint's tiering policy when "create_destination.tiering.supported" is set to "true". This property is applicable to FlexVol volume and FlexGroup volume endpoints. This property determines whether the user data blocks of the destination endpoint in a FabricPool will be tiered to the cloud store when they become cold. FabricPool combines flash (performance tier) with a cloud store into a single aggregate. Temperature of the destination endpoint volume blocks increases if they are accessed frequently and decreases when they are not. all &dash; This policy allows tiering of both destination endpoint Snapshot copies and the user transferred data blocks to the cloud store as soon as possible by ignoring the temperature on the volume blocks. This tiering policy is not applicable for synchronous relationships. auto &dash; This policy allows tiering of both destination endpoint Snapshot copies and the active file system user data to the cloud store none &dash; Destination endpoint volume blocks will not be tiered to the cloud store. snapshot_only &dash; This policy allows tiering of only the destination endpoint volume Snapshot copies not associated with the active file system. The default tiering policy is "snapshot_only" for a FlexVol volume and "none" for a FlexGroup volume.</p> |

| Name | Type | Description |
|-----------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| supported | boolean | Optional property to enable provisioning of the destination endpoint volumes on FabricPool aggregates. This property is applicable to FlexVol volume and FlexGroup volume endpoints. Only FabricPool aggregates are used if this property is set to "true" and only non FabricPool aggregates are used if this property is set to "false". Tiering support for a FlexGroup volume can be changed by moving all of the constituents to the required aggregates. Note that in order to tier data, not only do the destination endpoint volumes need to support tiering by using FabricPools, the "create_destination.tiering.policy" must not be "none". A destination endpoint that uses FabricPools but has a tiering "policy" of "none" supports tiering but will not tier any data. |

snapmirror_destination_creation

Use this object to provision the destination endpoint when establishing a SnapMirror relationship for a FlexVol volume, FlexGroup volume, or SVM. Given a source endpoint, the destination endpoint is provisioned in the SVM specified in the "destination.path" property. The SVM destination endpoint can only be provisioned on the local cluster. To provision the SVM destination endpoint use the optional "source.cluster.name" property to specify the remote cluster name or use the optional "source.cluster.uuid" property to specify the remote cluster UUID. When "create_destination.enabled" option is specified while making a POST for a SnapMirror relationship, the relationship can be automatically initialized by setting the "state" either to "snapmirrored" when the policy is of type "async" or to "in_sync" when the policy is of type "sync". The "destination.path" property must specify the destination endpoint path. For example, for FlexVol volume and FlexGroup volume, the "destination.path" can be specified as <destination-svm-name:dp-volume-name>, and for SVM data protection, the "destination.path" must be specified as <destination-svm-name:>. For a FlexVol volume or FlexGroup volume destination endpoint, the properties in this object can be specified either from the source or destination cluster. For an SVM destination endpoint, the properties in this object can be specified from the destination cluster. This object is not supported for non ONTAP endpoints.</destination-svm-name:></destination-svm-name:dp-volume-name>

| Name | Type | Description |
|-----------------|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| enabled | boolean | Optional property to create the destination endpoint when establishing a SnapMirror relationship. It is assumed to be "false" if no other property is set and assumed to be "true" if any other property is set. |
| storage_service | storage_service | |
| tiering | tiering | |

cluster

| Name | Type | Description |
|--------|------------------------|-------------|
| _links | _links | |
| name | string | |
| uuid | string | |

svm

| Name | Type | Description |
|--------|------------------------|-----------------------------------|
| _links | _links | |
| name | string | The name of the SVM. |
| uuid | string | The unique identifier of the SVM. |

snapmirror_endpoint

Endpoint of a SnapMirror relationship. For a GET request, the property "cluster" is populated when the endpoint is on a remote cluster. A POST request to create the destination SVM endpoint or to establish an SVM DR relationship must have the property "cluster" populated with the remote cluster details. A POST request to create the destination FlexVol volume or FlexGroup volume endpoints can optionally specify the "cluster" property. A POST request to establish a SnapMirror relationship when the source SVM and the destination SVM are not peered, must specify the "cluster" property.

| Name | Type | Description |
|---------|-------------------------|------------------------------------------------------|
| cluster | cluster | |
| ipspace | string | Optional property to specify the IPspace of the SVM. |

| Name | Type | Description |
|------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| path | string | ONTAP FlexVol/FlexGroup - svm1:volume1 ONTAP SVM - svm1: <ul style="list-style-type: none"> • example: svm1:volume1 • readCreate: 1 |
| svm | svm | |

policy

Basic policy information of the relationship.

| Name | Type | Description |
|------------------------|------------------------|-------------|
| _links | _links | |
| name | string | |
| type | string | |
| uuid | string | |

transfer

Basic information on the current transfer.

| Name | Type | Description |
|------------------------|------------------------|--------------------|
| _links | _links | |
| bytes_transferred | integer | Bytes transferred. |
| state | string | |
| uuid | string | |

snapmirror_error

SnapMirror error

| Name | Type | Description |
|------------|---------------|----------------------------------|
| code | integer | Error code |
| message | string | Error message |
| parameters | array[string] | Parameters for the error message |

snapmirror_relationship

SnapMirror relationship information

| Name | Type | Description |
|--------|------------------------|-------------|
| _links | _links | |

| Name | Type | Description |
|--------------------|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| create_destination | snapmirror_destination_creation | <p>Use this object to provision the destination endpoint when establishing a SnapMirror relationship for a FlexVol volume, FlexGroup volume, or SVM. Given a source endpoint, the destination endpoint is provisioned in the SVM specified in the "destination.path" property. The SVM destination endpoint can only be provisioned on the local cluster. To provision the SVM destination endpoint use the optional "source.cluster.name" property to specify the remote cluster name or use the optional "source.cluster.uuid" property to specify the remote cluster UUID. When "create_destination.enabled" option is specified while making a POST for a SnapMirror relationship, the relationship can be automatically initialized by setting the "state" either to "snapmirrored" when the policy is of type "async" or to "in_sync" when the policy is of type "sync". The "destination.path" property must specify the destination endpoint path. For example, for FlexVol volume and FlexGroup volume, the "destination.path" can be specified as <destination-SVM-name:dp-volume-name>, and for SVM data protection, the "destination.path" must be specified as &lt;destination-SVM-name:&gt;. For a FlexVol volume or FlexGroup volume destination endpoint, the properties in this object can be specified either from the source or destination cluster. For an SVM destination endpoint, the properties in this object can be specified from the destination cluster. This object is not supported for non ONTAP endpoints.</destination-SVM-name:dp-volume-name></p> <ul style="list-style-type: none"> • x-ntap-createOnly: true |

| Name | Type | Description |
|-------------------|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| destination | snapmirror_endpoint | Endpoint of a SnapMirror relationship. For a GET request, the property "cluster" is populated when the endpoint is on a remote cluster. A POST request to create the destination SVM endpoint or to establish an SVM DR relationship must have the property "cluster" populated with the remote cluster details. A POST request to create the destination FlexVol volume or FlexGroup volume endpoints can optionally specify the "cluster" property. A POST request to establish a SnapMirror relationship when the source SVM and the destination SVM are not peered, must specify the "cluster" property. |
| exported_snapshot | string | Snapshot copy exported to clients on destination. |
| healthy | boolean | Is the relationship healthy? |
| lag_time | string | Time since the exported Snapshot copy was created. |
| policy | policy | Basic policy information of the relationship. |
| preserve | boolean | Set to true on resync to preserve Snapshot copies on the destination that are newer than the latest common Snapshot copy. This property is applicable only for relationships with FlexGroup or FlexVol endpoints and when the PATCH state is being changed to "snapmirrored". |
| quick_resync | boolean | Set to true to reduce resync time by not preserving storage efficiency. This property is applicable only for relationships with FlexVol endpoints and when the PATCH state is being changed to "snapmirrored". |

| Name | Type | Description |
|---------------------|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| recover_after_break | boolean | Set to true to recover from a failed SnapMirror break operation on a FlexGroup relationship. This restores all destination FlexGroup constituents to the latest Snapshot copy, and any writes to the read-write constituents are lost. This property is applicable only for SnapMirror relationships with FlexGroup endpoints and when the PATCH state is being changed to "broken_off". |
| restore | boolean | Set to true to create a relationship for restore. To trigger restore-transfer, use transfers POST on the restore relationship. |
| restore_to_snapshot | string | Specifies the Snapshot copy to restore to on the destination during the break operation. This property is applicable only for SnapMirror relationships with FlexVol endpoints and when the PATCH state is being changed to "broken_off". |
| source | snapmirror_endpoint | Endpoint of a SnapMirror relationship. For a GET request, the property "cluster" is populated when the endpoint is on a remote cluster. A POST request to create the destination SVM endpoint or to establish an SVM DR relationship must have the property "cluster" populated with the remote cluster details. A POST request to create the destination FlexVol volume or FlexGroup volume endpoints can optionally specify the "cluster" property. A POST request to establish a SnapMirror relationship when the source SVM and the destination SVM are not peered, must specify the "cluster" property. |

| Name | Type | Description |
|------------------|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| state | string | State of the relationship. To initialize the relationship, PATCH the state to "snapmirrored" for relationships with a policy of type "async" or "in-sync" for relationships with a policy of type "sync". To break the relationship, PATCH the state to "broken_off". To resync the broken relationship, PATCH the state to "snapmirrored" for relationships with a policy of type "async" or "in_sync" for relationships with a policy of type "sync". To pause the relationship, suspending further transfers, PATCH the state to "paused". To resume transfers for a paused relationship, PATCH the state to "snapmirrored" or "in_sync". The entries "in_sync", "out_of_sync", and "synchronizing" are only applicable to relationships with a policy of type "sync". A PATCH call on the state change only triggers the transition to the specified state. You must poll on the "state", "healthy" and "unhealthy_reason" properties using a GET request to determine if the transition is successful. To automatically initialize the relationship when specifying "create_destination", set the state to "snapmirrored" for relationships with a policy of type "async" or "in_sync" for relationships with a policy of type "sync". |
| transfer | transfer | Basic information on the current transfer. |
| unhealthy_reason | array[snapmirror_error] | Reason the relationship is not healthy. It is a concatenation of up to four levels of error messages. |
| uuid | string | |

job_link

| Name | Type | Description |
|--------|------------------------|-------------------------------------------------------------------------------------------|
| _links | _links | |
| uuid | string | The UUID of the asynchronous job that is triggered by a POST, PATCH, or DELETE operation. |

error_arguments

| Name | Type | Description |
|---------|--------|------------------|
| code | string | Argument code |
| message | string | Message argument |

error

| Name | Type | Description |
|-----------|------------------------------------------|---------------------------------------------|
| arguments | array[error_arguments] | Message arguments |
| code | string | Error code |
| message | string | Error message |
| target | string | The target parameter that caused the error. |

Delete a SnapMirror relationship

DELETE /snapmirror/relationships/{uuid}

Deletes a SnapMirror relationship.

Important notes

- The "destination_only", "source_only", and "source_info_only" flags are mutually exclusive. If no flag is specified, the relationship is deleted from both the source and destination and all common Snapshot copies between the source and destination are also deleted.
- For a restore relationship, the call must be executed on the cluster containing the destination endpoint without specifying the destination_only, source_only, or source_info_only parameters.
- Additionally, ensure that there are no ongoing transfers on a restore relationship before calling this API.

Related ONTAP commands

- `snapmirror delete`

- `snapmirror release`

Examples

The following examples show how to delete the relationship from both the source and destination, the destination only, and the source only.

Deleting the relationship from both the source and destination. This API must be run on the cluster containing the destination endpoint.

```
DELETE "/api/snapmirror/relationships/4512b2d2-fd60-11e8-8929-005056bbfe52"
```

Deleting the relationship on the destination only. This API must be run on the cluster containing the destination endpoint.

```
DELETE "/api/snapmirror/relationships/fd1e0697-02ba-11e9-acc7-005056a7697f/?destination_only=true"
```

Deleting the relationship on the source only. This API must be run on the cluster containing the source endpoint.

```
DELETE "/api/snapmirror/relationships/93e828ba-02bc-11e9-acc7-005056a7697f/?source_only=true"
```

Deleting the source information only. This API must be run on the cluster containing the source endpoint. This does not delete the common Snapshot copies between the source and destination.

```
DELETE "/api/snapmirror/relationships/caf545a2-fc60-11e8-aa13-005056a707ff/?source_info_only=true"
```

Learn more

- [DOC /snapmirror/relationships](#)

Parameters

| Name | Type | In | Required | Description |
|------|--------|------|----------|-------------------|
| uuid | string | path | True | Relationship UUID |

| Name | Type | In | Required | Description |
|------------------|---------|-------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| destination_only | boolean | query | False | Deletes a relationship on the destination only. This parameter is applicable only when the call is executed on the cluster that contains the destination endpoint. |
| source_only | boolean | query | False | Deletes a relationship on the source only. This parameter is applicable only when the call is executed on the cluster that contains the source endpoint. |
| source_info_only | boolean | query | False | Deletes relationship information on the source only. This parameter is applicable only when the call is executed on the cluster that contains the source endpoint. |

| Name | Type | In | Required | Description |
|----------------|---------|-------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| return_timeout | integer | query | False | The number of seconds to allow the call to execute before returning. When doing a POST, PATCH, or DELETE operation on a single record, the default is 0 seconds. This means that if an asynchronous operation is started, the server immediately returns HTTP code 202 (Accepted) along with a link to the job. If a non-zero value is specified for POST, PATCH, or DELETE operations, ONTAP waits that length of time to see if the job completes so it can return something other than 202. |

Response

Status: 202, Accepted

| Name | Type | Description |
|------|--------------------------|-------------|
| job | job_link | |

Example response

```
{
  "job": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "uuid": "string"
  }
}
```

Error

Status: Default

ONTAP Error Response codes

| Error code | Description |
|------------|------------------------------------------------------------------------|
| 13303825 | Could not retrieve information for the SnapMirror policy type |
| 13303814 | Could not retrieve the source or destination SVM UUID |
| 13303815 | Could not retrieve information for the peer cluster |
| 13303822 | SnapMirror release has failed |
| 13303813 | SnapMirror release was successful but delete has failed |
| 13303854 | Cleanup of restore relationship failed |
| 13303855 | DELETE call on a restore relationship does not support the given flags |
| 13303865 | Deleting the specified SnapMirror policy is not supported. |

| Name | Type | Description |
|-------|-------|-------------|
| error | error | |

Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

href

| Name | Type | Description |
|------|--------|-------------|
| href | string | |

_links

| Name | Type | Description |
|------|----------------------|-------------|
| self | href | |

job_link

| Name | Type | Description |
|--------|------------------------|-------------------------------------------------------------------------------------------|
| _links | _links | |
| uuid | string | The UUID of the asynchronous job that is triggered by a POST, PATCH, or DELETE operation. |

error_arguments

| Name | Type | Description |
|---------|--------|------------------|
| code | string | Argument code |
| message | string | Message argument |

error

| Name | Type | Description |
|-----------|------------------------------------------|---------------------------------------------|
| arguments | array[error_arguments] | Message arguments |
| code | string | Error code |
| message | string | Error message |
| target | string | The target parameter that caused the error. |

Retrieve a SnapMirror relationship

GET /snapmirror/relationships/{uuid}

Retrieves a SnapMirror relationship.

Related ONTAP commands

- `snapmirror show`
- `snapmirror list-destinations`

Example

```
GET "/api/snapmirror/relationships/caf545a2-fc60-11e8-aa13-005056a707ff/"
```

Learn more

- [DOC /snapmirror/relationships](#)

Parameters

| Name | Type | In | Required | Description |
|------------------------|---------------|-------|----------|---------------------------------------------------------|
| uuid | string | path | True | Relationship UUID |
| list_destinations_only | boolean | query | False | Set to true to show relationships from the source only. |
| fields | array[string] | query | False | Specify the fields to return. |

Response

```
Status: 200, Ok
```

| Name | Type | Description |
|--------|------------------------|-------------|
| _links | _links | |

| Name | Type | Description |
|-------------------|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| destination | snapmirror_endpoint | Endpoint of a SnapMirror relationship. For a GET request, the property "cluster" is populated when the endpoint is on a remote cluster. A POST request to create the destination SVM endpoint or to establish an SVM DR relationship must have the property "cluster" populated with the remote cluster details. A POST request to create the destination FlexVol volume or FlexGroup volume endpoints can optionally specify the "cluster" property. A POST request to establish a SnapMirror relationship when the source SVM and the destination SVM are not peered, must specify the "cluster" property. |
| exported_snapshot | string | Snapshot copy exported to clients on destination. |
| healthy | boolean | Is the relationship healthy? |
| lag_time | string | Time since the exported Snapshot copy was created. |
| policy | policy | Basic policy information of the relationship. |
| preserve | boolean | Set to true on resync to preserve Snapshot copies on the destination that are newer than the latest common Snapshot copy. This property is applicable only for relationships with FlexGroup or FlexVol endpoints and when the PATCH state is being changed to "snapmirrored". |
| quick_resync | boolean | Set to true to reduce resync time by not preserving storage efficiency. This property is applicable only for relationships with FlexVol endpoints and when the PATCH state is being changed to "snapmirrored". |

| Name | Type | Description |
|---------------------|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| recover_after_break | boolean | Set to true to recover from a failed SnapMirror break operation on a FlexGroup relationship. This restores all destination FlexGroup constituents to the latest Snapshot copy, and any writes to the read-write constituents are lost. This property is applicable only for SnapMirror relationships with FlexGroup endpoints and when the PATCH state is being changed to "broken_off". |
| restore | boolean | Set to true to create a relationship for restore. To trigger restore-transfer, use transfers POST on the restore relationship. |
| restore_to_snapshot | string | Specifies the Snapshot copy to restore to on the destination during the break operation. This property is applicable only for SnapMirror relationships with FlexVol endpoints and when the PATCH state is being changed to "broken_off". |
| source | snapmirror_endpoint | Endpoint of a SnapMirror relationship. For a GET request, the property "cluster" is populated when the endpoint is on a remote cluster. A POST request to create the destination SVM endpoint or to establish an SVM DR relationship must have the property "cluster" populated with the remote cluster details. A POST request to create the destination FlexVol volume or FlexGroup volume endpoints can optionally specify the "cluster" property. A POST request to establish a SnapMirror relationship when the source SVM and the destination SVM are not peered, must specify the "cluster" property. |

| Name | Type | Description |
|------------------|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| state | string | State of the relationship. To initialize the relationship, PATCH the state to "snapmirrored" for relationships with a policy of type "async" or "in-sync" for relationships with a policy of type "sync". To break the relationship, PATCH the state to "broken_off". To resync the broken relationship, PATCH the state to "snapmirrored" for relationships with a policy of type "async" or "in_sync" for relationships with a policy of type "sync". To pause the relationship, suspending further transfers, PATCH the state to "paused". To resume transfers for a paused relationship, PATCH the state to "snapmirrored" or "in_sync". The entries "in_sync", "out_of_sync", and "synchronizing" are only applicable to relationships with a policy of type "sync". A PATCH call on the state change only triggers the transition to the specified state. You must poll on the "state", "healthy" and "unhealthy_reason" properties using a GET request to determine if the transition is successful. To automatically initialize the relationship when specifying "create_destination", set the state to "snapmirrored" for relationships with a policy of type "async" or "in_sync" for relationships with a policy of type "sync". |
| transfer | transfer | Basic information on the current transfer. |
| unhealthy_reason | array[snapmirror_error] | Reason the relationship is not healthy. It is a concatenation of up to four levels of error messages. |
| uuid | string | |

Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "destination": {
    "cluster": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "cluster1",
      "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
    },
    "path": "svm1:volume1",
    "svm": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "svm1",
      "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
    }
  },
  "exported_snapshot": "string",
  "lag_time": "PT8H35M42S",
  "policy": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "Asynchronous",
    "type": "string",
    "uuid": "4ea7a442-86d1-11e0-ae1c-123478563412"
  },
  "restore_to_snapshot": "string",
  "source": {
    "cluster": {
      "_links": {
        "self": {
```

```

        "href": "/api/resourcelink"
      },
    },
    "name": "cluster1",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "path": "svm1:volume1",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  }
},
"state": "snapmirrored",
"transfer": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  }
},
"state": "string",
"uuid": "4ea7a442-86d1-11e0-ae1c-123478563412"
},
"unhealthy_reason": [
  {
    "code": "6621444",
    "message": "Failed to complete update operation on one or more
item relationships.",
    "parameters": []
  },
  {
    "code": "6621445",
    "message": "Group Update failed",
    "parameters": []
  }
],
"uuid": "4ea7a442-86d1-11e0-ae1c-123478563412"
}

```

Error

Status: Default

ONTAP Error Response codes

| Error code | Description |
|------------|---------------------------------------------------------------|
| 13303825 | Could not retrieve information for the SnapMirror policy type |
| 13303817 | Unknown value for the Snapmirror State |

| Name | Type | Description |
|-------|-----------------------|-------------|
| error | error | |

Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

href

| Name | Type | Description |
|------|--------|-------------|
| href | string | |

_links

| Name | Type | Description |
|------|----------------------|-------------|
| self | href | |

storage_service

| Name | Type | Description |
|---------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| enabled | boolean | This property indicates whether to create the destination endpoint using storage service. |
| enforce_performance | boolean | Optional property to enforce storage service performance on the destination endpoint when the destination endpoint is used for read-write operations. This property is applicable to FlexVol volume and FlexGroup volume endpoints. |

| Name | Type | Description |
|------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| name | string | <p>Optional property to specify the storage service name for the destination endpoint. This property is considered when the property "create_destination.storage_service.enabled" is set to "true". When the property "create_destination.storage_service.enabled" is set to "true" and the "create_destination.storage_service.name" for the endpoint is not specified, then ONTAP selects the highest storage service available on the cluster to provision the destination endpoint. This property is applicable to FlexVol volume and FlexGroup volume endpoints.</p> <ul style="list-style-type: none"> enum: ["extreme", "performance", "value"] |

tiering

| Name | Type | Description |
|--------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| policy | string | <p>Optional property to specify the destination endpoint's tiering policy when "create_destination.tiering.supported" is set to "true". This property is applicable to FlexVol volume and FlexGroup volume endpoints. This property determines whether the user data blocks of the destination endpoint in a FabricPool will be tiered to the cloud store when they become cold. FabricPool combines flash (performance tier) with a cloud store into a single aggregate. Temperature of the destination endpoint volume blocks increases if they are accessed frequently and decreases when they are not. all &dash; This policy allows tiering of both destination endpoint Snapshot copies and the user transferred data blocks to the cloud store as soon as possible by ignoring the temperature on the volume blocks. This tiering policy is not applicable for synchronous relationships. auto &dash; This policy allows tiering of both destination endpoint Snapshot copies and the active file system user data to the cloud store none &dash; Destination endpoint volume blocks will not be tiered to the cloud store. snapshot_only &dash; This policy allows tiering of only the destination endpoint volume Snapshot copies not associated with the active file system. The default tiering policy is "snapshot_only" for a FlexVol volume and "none" for a FlexGroup volume.</p> |

| Name | Type | Description |
|-----------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| supported | boolean | Optional property to enable provisioning of the destination endpoint volumes on FabricPool aggregates. This property is applicable to FlexVol volume and FlexGroup volume endpoints. Only FabricPool aggregates are used if this property is set to "true" and only non FabricPool aggregates are used if this property is set to "false". Tiering support for a FlexGroup volume can be changed by moving all of the constituents to the required aggregates. Note that in order to tier data, not only do the destination endpoint volumes need to support tiering by using FabricPools, the "create_destination.tiering.policy" must not be "none". A destination endpoint that uses FabricPools but has a tiering "policy" of "none" supports tiering but will not tier any data. |

snapmirror_destination_creation

Use this object to provision the destination endpoint when establishing a SnapMirror relationship for a FlexVol volume, FlexGroup volume, or SVM. Given a source endpoint, the destination endpoint is provisioned in the SVM specified in the "destination.path" property. The SVM destination endpoint can only be provisioned on the local cluster. To provision the SVM destination endpoint use the optional "source.cluster.name" property to specify the remote cluster name or use the optional "source.cluster.uuid" property to specify the remote cluster UUID. When "create_destination.enabled" option is specified while making a POST for a SnapMirror relationship, the relationship can be automatically initialized by setting the "state" either to "snapmirrored" when the policy is of type "async" or to "in_sync" when the policy is of type "sync". The "destination.path" property must specify the destination endpoint path. For example, for FlexVol volume and FlexGroup volume, the "destination.path" can be specified as <destination-svm-name:dp-volume-name>, and for SVM data protection, the "destination.path" must be specified as <destination-svm-name:>. For a FlexVol volume or FlexGroup volume destination endpoint, the properties in this object can be specified either from the source or destination cluster. For an SVM destination endpoint, the properties in this object can be specified from the destination cluster. This object is not supported for non ONTAP endpoints.</destination-svm-name:></destination-svm-name:dp-volume-name>

| Name | Type | Description |
|-----------------|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| enabled | boolean | Optional property to create the destination endpoint when establishing a SnapMirror relationship. It is assumed to be "false" if no other property is set and assumed to be "true" if any other property is set. |
| storage_service | storage_service | |
| tiering | tiering | |

cluster

| Name | Type | Description |
|--------|------------------------|-------------|
| _links | _links | |
| name | string | |
| uuid | string | |

svm

| Name | Type | Description |
|--------|------------------------|-----------------------------------|
| _links | _links | |
| name | string | The name of the SVM. |
| uuid | string | The unique identifier of the SVM. |

snapmirror_endpoint

Endpoint of a SnapMirror relationship. For a GET request, the property "cluster" is populated when the endpoint is on a remote cluster. A POST request to create the destination SVM endpoint or to establish an SVM DR relationship must have the property "cluster" populated with the remote cluster details. A POST request to create the destination FlexVol volume or FlexGroup volume endpoints can optionally specify the "cluster" property. A POST request to establish a SnapMirror relationship when the source SVM and the destination SVM are not peered, must specify the "cluster" property.

| Name | Type | Description |
|---------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| cluster | cluster | |
| path | string | ONTAP FlexVol/FlexGroup - svm1:volume1 ONTAP SVM - svm1: <ul style="list-style-type: none"> • example: svm1:volume1 • readCreate: 1 |

| Name | Type | Description |
|------|---------------------|-------------|
| svm | svm | |

policy

Basic policy information of the relationship.

| Name | Type | Description |
|--------|------------------------|-------------|
| _links | _links | |
| name | string | |
| type | string | |
| uuid | string | |

transfer

Basic information on the current transfer.

| Name | Type | Description |
|-------------------|------------------------|--------------------|
| _links | _links | |
| bytes_transferred | integer | Bytes transferred. |
| state | string | |
| uuid | string | |

snapmirror_error

SnapMirror error

| Name | Type | Description |
|------------|---------------|----------------------------------|
| code | integer | Error code |
| message | string | Error message |
| parameters | array[string] | Parameters for the error message |

error_arguments

| Name | Type | Description |
|---------|--------|------------------|
| code | string | Argument code |
| message | string | Message argument |

error

| Name | Type | Description |
|-----------|------------------------------------------|---------------------------------------------|
| arguments | array[error_arguments] | Message arguments |
| code | string | Error code |
| message | string | Error message |
| target | string | The target parameter that caused the error. |

Update a SnapMirror relationship

PATCH /snapmirror/relationships/{uuid}

Updates a SnapMirror relationship. This API is used to initiate SnapMirror operations such as "initialize", "resync", "break", "quiesce", and "resume" by specifying the appropriate value for the "state" field. It is also used to modify the SnapMirror policy associated with the specified relationship.

Related ONTAP commands

- `snapmirror modify`
- `snapmirror initialize`
- `snapmirror resync`
- `snapmirror break`
- `snapmirror quiesce`
- `snapmirror resume`

Examples

The following examples show how to perform the SnapMirror "resync", "initialize", "resume", "quiesce", and "break" operations.

Performing a SnapMirror "resync"

```
PATCH "/api/snapmirror/relationships/98bb2608-fc60-11e8-aa13-005056a707ff/" '{"state":"snapmirrored"}'
```

Performing a SnapMirror "initialize"

```
PATCH "/api/snapmirror/relationships/98bb2608-fc60-11e8-aa13-005056a707ff/" '{"state":"snapmirrored"}'
```

Performing a SnapMirror "resume"

```
PATCH "/api/snapmirror/relationships/98bb2608-fc60-11e8-aa13-005056a707ff/" '{"state":"snapmirrored"}'
```

Performing a SnapMirror "quiesce"

```
PATCH "/api/snapmirror/relationships/98bb2608-fc60-11e8-aa13-005056a707ff" '{"state":"paused"}'
```

Performing a SnapMirror "break"

```
PATCH "/api/snapmirror/relationships/98bb2608-fc60-11e8-aa13-005056a707ff" '{"state":"broken_off"}'
```

Updating an associated SnapMirror policy

```
PATCH "/api/snapmirror/relationships/9e922e65-1818-11e9-8b22-005056bbee73/" '{"policy": { "name" : "MirrorAndVaultDiscardNetwork"}}'
```

Learn more

- [DOC /snapmirror/relationships](#)

Parameters

| Name | Type | In | Required | Description |
|----------------|---------|-------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| return_timeout | integer | query | False | The number of seconds to allow the call to execute before returning. When doing a POST, PATCH, or DELETE operation on a single record, the default is 0 seconds. This means that if an asynchronous operation is started, the server immediately returns HTTP code 202 (Accepted) along with a link to the job. If a non-zero value is specified for POST, PATCH, or DELETE operations, ONTAP waits that length of time to see if the job completes so it can return something other than 202. |
| uuid | string | path | True | Relationship UUID |
| failover | boolean | query | False | If this parameter is set, validation and failover will occur to the Snapmirror relationship destination endpoint. Any other fields specified with this parameter will be ignored. |
| validate_only | boolean | query | False | Validate the operation and its parameters, without actually performing the operation. |

| Name | Type | In | Required | Description |
|----------------|---------|-------|----------|----------------------------------------------------------------------------------------------------------------------|
| force-failover | boolean | query | False | If this parameter is set, failover will occur to the SVM DR relationship endpoint, overriding the validation errors. |

Request Body

| Name | Type | Description |
|-------------------|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| _links | _links | |
| destination | snapmirror_endpoint | Endpoint of a SnapMirror relationship. For a GET request, the property "cluster" is populated when the endpoint is on a remote cluster. A POST request to create the destination SVM endpoint or to establish an SVM DR relationship must have the property "cluster" populated with the remote cluster details. A POST request to create the destination FlexVol volume or FlexGroup volume endpoints can optionally specify the "cluster" property. A POST request to establish a SnapMirror relationship when the source SVM and the destination SVM are not peered, must specify the "cluster" property. |
| exported_snapshot | string | Snapshot copy exported to clients on destination. |
| healthy | boolean | Is the relationship healthy? |
| lag_time | string | Time since the exported Snapshot copy was created. |
| policy | policy | Basic policy information of the relationship. |

| Name | Type | Description |
|---------------------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| preserve | boolean | Set to true on resync to preserve Snapshot copies on the destination that are newer than the latest common Snapshot copy. This property is applicable only for relationships with FlexGroup or FlexVol endpoints and when the PATCH state is being changed to "snapmirrored". |
| quick_resync | boolean | Set to true to reduce resync time by not preserving storage efficiency. This property is applicable only for relationships with FlexVol endpoints and when the PATCH state is being changed to "snapmirrored". |
| recover_after_break | boolean | Set to true to recover from a failed SnapMirror break operation on a FlexGroup relationship. This restores all destination FlexGroup constituents to the latest Snapshot copy, and any writes to the read-write constituents are lost. This property is applicable only for SnapMirror relationships with FlexGroup endpoints and when the PATCH state is being changed to "broken_off". |
| restore_to_snapshot | string | Specifies the Snapshot copy to restore to on the destination during the break operation. This property is applicable only for SnapMirror relationships with FlexVol endpoints and when the PATCH state is being changed to "broken_off". |

| Name | Type | Description |
|--------|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| source | snapmirror_endpoint | Endpoint of a SnapMirror relationship. For a GET request, the property "cluster" is populated when the endpoint is on a remote cluster. A POST request to create the destination SVM endpoint or to establish an SVM DR relationship must have the property "cluster" populated with the remote cluster details. A POST request to create the destination FlexVol volume or FlexGroup volume endpoints can optionally specify the "cluster" property. A POST request to establish a SnapMirror relationship when the source SVM and the destination SVM are not peered, must specify the "cluster" property. |

| Name | Type | Description |
|------------------|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| state | string | State of the relationship. To initialize the relationship, PATCH the state to "snapmirrored" for relationships with a policy of type "async" or "in-sync" for relationships with a policy of type "sync". To break the relationship, PATCH the state to "broken_off". To resync the broken relationship, PATCH the state to "snapmirrored" for relationships with a policy of type "async" or "in_sync" for relationships with a policy of type "sync". To pause the relationship, suspending further transfers, PATCH the state to "paused". To resume transfers for a paused relationship, PATCH the state to "snapmirrored" or "in_sync". The entries "in_sync", "out_of_sync", and "synchronizing" are only applicable to relationships with a policy of type "sync". A PATCH call on the state change only triggers the transition to the specified state. You must poll on the "state", "healthy" and "unhealthy_reason" properties using a GET request to determine if the transition is successful. To automatically initialize the relationship when specifying "create_destination", set the state to "snapmirrored" for relationships with a policy of type "async" or "in_sync" for relationships with a policy of type "sync". |
| transfer | transfer | Basic information on the current transfer. |
| unhealthy_reason | array[snapmirror_error] | Reason the relationship is not healthy. It is a concatenation of up to four levels of error messages. |
| uuid | string | |

Example request

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "destination": {
    "cluster": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "cluster1",
      "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
    },
    "svm": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "svm1",
      "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
    }
  },
  "exported_snapshot": "string",
  "lag_time": "PT8H35M42S",
  "policy": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "Asynchronous",
    "type": "string",
    "uuid": "4ea7a442-86d1-11e0-ae1c-123478563412"
  },
  "restore": null,
  "restore_to_snapshot": "string",
  "source": {
    "cluster": {
      "_links": {
        "self": {
```

```

        "href": "/api/resourcelink"
      }
    },
    "name": "cluster1",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  }
},
"state": "snapmirrored",
"transfer": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  }
},
"state": "string",
"uuid": "4ea7a442-86d1-11e0-ae1c-123478563412"
},
"unhealthy_reason": [
  {
    "code": "6621444",
    "message": "Failed to complete update operation on one or more
item relationships.",
    "parameters": []
  },
  {
    "code": "6621445",
    "message": "Group Update failed",
    "parameters": []
  }
],
"uuid": "4ea7a442-86d1-11e0-ae1c-123478563412"
}

```

Response

Status: 202, Accepted

| Name | Type | Description |
|------|--------------------------|-------------|
| job | job_link | |

Example response

```
{
  "job": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "uuid": "string"
  }
}
```

Error

Status: Default

ONTAP Error Response codes

| Error code | Description |
|------------|----------------------------------------------------------------------|
| 13303825 | Could not retrieve information for the SnapMirror policy type |
| 13303817 | Unknown value for the SnapMirror state |
| 13303829 | Invalid state |
| 13303830 | Transient state |
| 13303831 | Invalid state for async SnapMirror relationship |
| 13303834 | Given input valid only for FlexGroup SnapMirror relationship |
| 13303835 | Given flag is valid only when PATCH state is broken_off |
| 13303836 | Given flag is valid only when PATCH state is snapmirrored or in_sync |
| 13303818 | Invalid state transition requested |

| Error code | Description |
|------------|--------------------------------------------------------------------------------------|
| 13303828 | Given state change is not possible for SVM SnapMirror relationship |
| 13303833 | Requested state change is not possible |
| 13303832 | SnapMirror relationship is already initialized |
| 13303824 | Quiescing the SnapMirror relationship has failed |
| 13303826 | Required environment variables are not set |
| 13303827 | Internal Error |
| 13303823 | Quiesce operation timed out |
| 13303821 | Invalid SnapMirror policy name/UUID |
| 13303819 | Could not retrieve SnapMirror policy information |
| 13303851 | Cannot modify attributes of SnapMirror restore relationship |
| 13303816 | Could not retrieve state or status values |
| 13303837 | Given flags are valid only if SnapMirror state change is requested |
| 6619546 | Destination must be a dp volume |
| 13303808 | Transition to broken_off state failed |
| 13303809 | Transition to paused state failed |
| 13303810 | Transition to snapmirrored state failed |
| 13303811 | Transition from paused state failed |
| 13303820 | SnapMirror policy was successfully updated, state transition failed |
| 13303856 | SVM is not configured with any data protocol |
| 13303857 | SVM is not configured with any network interface |
| 13303858 | Internal error. Failed to check LIF and protocols details for SVM |
| 13303859 | Internal error. SVM Failover operation failed. SVM operational state is unavailable. |
| 13303865 | Modifying the specified SnapMirror policy is not supported. |
| 13303866 | Cannot use the specified policy to modify the policy of the relationship. |
| 13303867 | Modifying the policy of an async-mirror or a vault relationship is not supported. |
| 13303884 | LIF and protocols details are configured incorrectly for SVM. |

| Name | Type | Description |
|-------|-------|-------------|
| error | error | |

Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

href

| Name | Type | Description |
|------|--------|-------------|
| href | string | |

_links

| Name | Type | Description |
|------|----------------------|-------------|
| self | href | |

storage_service

| Name | Type | Description |
|---------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| enabled | boolean | This property indicates whether to create the destination endpoint using storage service. |
| enforce_performance | boolean | Optional property to enforce storage service performance on the destination endpoint when the destination endpoint is used for read-write operations. This property is applicable to FlexVol volume and FlexGroup volume endpoints. |

| Name | Type | Description |
|------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| name | string | <p>Optional property to specify the storage service name for the destination endpoint. This property is considered when the property "create_destination.storage_service.enabled" is set to "true". When the property "create_destination.storage_service.enabled" is set to "true" and the "create_destination.storage_service.name" for the endpoint is not specified, then ONTAP selects the highest storage service available on the cluster to provision the destination endpoint. This property is applicable to FlexVol volume and FlexGroup volume endpoints.</p> <ul style="list-style-type: none"> enum: ["extreme", "performance", "value"] |

tiering

| Name | Type | Description |
|--------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| policy | string | <p>Optional property to specify the destination endpoint's tiering policy when "create_destination.tiering.supported" is set to "true". This property is applicable to FlexVol volume and FlexGroup volume endpoints. This property determines whether the user data blocks of the destination endpoint in a FabricPool will be tiered to the cloud store when they become cold. FabricPool combines flash (performance tier) with a cloud store into a single aggregate. Temperature of the destination endpoint volume blocks increases if they are accessed frequently and decreases when they are not. all &dash; This policy allows tiering of both destination endpoint Snapshot copies and the user transferred data blocks to the cloud store as soon as possible by ignoring the temperature on the volume blocks. This tiering policy is not applicable for synchronous relationships. auto &dash; This policy allows tiering of both destination endpoint Snapshot copies and the active file system user data to the cloud store none &dash; Destination endpoint volume blocks will not be tiered to the cloud store. snapshot_only &dash; This policy allows tiering of only the destination endpoint volume Snapshot copies not associated with the active file system. The default tiering policy is "snapshot_only" for a FlexVol volume and "none" for a FlexGroup volume.</p> |

| Name | Type | Description |
|-----------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| supported | boolean | Optional property to enable provisioning of the destination endpoint volumes on FabricPool aggregates. This property is applicable to FlexVol volume and FlexGroup volume endpoints. Only FabricPool aggregates are used if this property is set to "true" and only non FabricPool aggregates are used if this property is set to "false". Tiering support for a FlexGroup volume can be changed by moving all of the constituents to the required aggregates. Note that in order to tier data, not only do the destination endpoint volumes need to support tiering by using FabricPools, the "create_destination.tiering.policy" must not be "none". A destination endpoint that uses FabricPools but has a tiering "policy" of "none" supports tiering but will not tier any data. |

snapmirror_destination_creation

Use this object to provision the destination endpoint when establishing a SnapMirror relationship for a FlexVol volume, FlexGroup volume, or SVM. Given a source endpoint, the destination endpoint is provisioned in the SVM specified in the "destination.path" property. The SVM destination endpoint can only be provisioned on the local cluster. To provision the SVM destination endpoint use the optional "source.cluster.name" property to specify the remote cluster name or use the optional "source.cluster.uuid" property to specify the remote cluster UUID. When "create_destination.enabled" option is specified while making a POST for a SnapMirror relationship, the relationship can be automatically initialized by setting the "state" either to "snapmirrored" when the policy is of type "async" or to "in_sync" when the policy is of type "sync". The "destination.path" property must specify the destination endpoint path. For example, for FlexVol volume and FlexGroup volume, the "destination.path" can be specified as <destination-svm-name:dp-volume-name>, and for SVM data protection, the "destination.path" must be specified as <destination-svm-name:>. For a FlexVol volume or FlexGroup volume destination endpoint, the properties in this object can be specified either from the source or destination cluster. For an SVM destination endpoint, the properties in this object can be specified from the destination cluster. This object is not supported for non ONTAP endpoints.</destination-svm-name:></destination-svm-name:dp-volume-name>

| Name | Type | Description |
|-----------------|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| enabled | boolean | Optional property to create the destination endpoint when establishing a SnapMirror relationship. It is assumed to be "false" if no other property is set and assumed to be "true" if any other property is set. |
| storage_service | storage_service | |
| tiering | tiering | |

cluster

| Name | Type | Description |
|--------|------------------------|-------------|
| _links | _links | |
| name | string | |
| uuid | string | |

svm

| Name | Type | Description |
|--------|------------------------|-----------------------------------|
| _links | _links | |
| name | string | The name of the SVM. |
| uuid | string | The unique identifier of the SVM. |

snapmirror_endpoint

Endpoint of a SnapMirror relationship. For a GET request, the property "cluster" is populated when the endpoint is on a remote cluster. A POST request to create the destination SVM endpoint or to establish an SVM DR relationship must have the property "cluster" populated with the remote cluster details. A POST request to create the destination FlexVol volume or FlexGroup volume endpoints can optionally specify the "cluster" property. A POST request to establish a SnapMirror relationship when the source SVM and the destination SVM are not peered, must specify the "cluster" property.

| Name | Type | Description |
|---------|-------------------------|-------------|
| cluster | cluster | |
| svm | svm | |

policy

Basic policy information of the relationship.

| Name | Type | Description |
|--------|------------------------|-------------|
| _links | _links | |
| name | string | |
| type | string | |
| uuid | string | |

transfer

Basic information on the current transfer.

| Name | Type | Description |
|-------------------|------------------------|--------------------|
| _links | _links | |
| bytes_transferred | integer | Bytes transferred. |
| state | string | |
| uuid | string | |

snapmirror_error

SnapMirror error

| Name | Type | Description |
|------------|---------------|----------------------------------|
| code | integer | Error code |
| message | string | Error message |
| parameters | array[string] | Parameters for the error message |

snapmirror_relationship

SnapMirror relationship information

| Name | Type | Description |
|--------|------------------------|-------------|
| _links | _links | |

| Name | Type | Description |
|-------------------|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| destination | snapmirror_endpoint | Endpoint of a SnapMirror relationship. For a GET request, the property "cluster" is populated when the endpoint is on a remote cluster. A POST request to create the destination SVM endpoint or to establish an SVM DR relationship must have the property "cluster" populated with the remote cluster details. A POST request to create the destination FlexVol volume or FlexGroup volume endpoints can optionally specify the "cluster" property. A POST request to establish a SnapMirror relationship when the source SVM and the destination SVM are not peered, must specify the "cluster" property. |
| exported_snapshot | string | Snapshot copy exported to clients on destination. |
| healthy | boolean | Is the relationship healthy? |
| lag_time | string | Time since the exported Snapshot copy was created. |
| policy | policy | Basic policy information of the relationship. |
| preserve | boolean | Set to true on resync to preserve Snapshot copies on the destination that are newer than the latest common Snapshot copy. This property is applicable only for relationships with FlexGroup or FlexVol endpoints and when the PATCH state is being changed to "snapmirrored". |
| quick_resync | boolean | Set to true to reduce resync time by not preserving storage efficiency. This property is applicable only for relationships with FlexVol endpoints and when the PATCH state is being changed to "snapmirrored". |

| Name | Type | Description |
|---------------------|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| recover_after_break | boolean | Set to true to recover from a failed SnapMirror break operation on a FlexGroup relationship. This restores all destination FlexGroup constituents to the latest Snapshot copy, and any writes to the read-write constituents are lost. This property is applicable only for SnapMirror relationships with FlexGroup endpoints and when the PATCH state is being changed to "broken_off". |
| restore_to_snapshot | string | Specifies the Snapshot copy to restore to on the destination during the break operation. This property is applicable only for SnapMirror relationships with FlexVol endpoints and when the PATCH state is being changed to "broken_off". |
| source | snapmirror_endpoint | Endpoint of a SnapMirror relationship. For a GET request, the property "cluster" is populated when the endpoint is on a remote cluster. A POST request to create the destination SVM endpoint or to establish an SVM DR relationship must have the property "cluster" populated with the remote cluster details. A POST request to create the destination FlexVol volume or FlexGroup volume endpoints can optionally specify the "cluster" property. A POST request to establish a SnapMirror relationship when the source SVM and the destination SVM are not peered, must specify the "cluster" property. |

| Name | Type | Description |
|------------------|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| state | string | State of the relationship. To initialize the relationship, PATCH the state to "snapmirrored" for relationships with a policy of type "async" or "in-sync" for relationships with a policy of type "sync". To break the relationship, PATCH the state to "broken_off". To resync the broken relationship, PATCH the state to "snapmirrored" for relationships with a policy of type "async" or "in_sync" for relationships with a policy of type "sync". To pause the relationship, suspending further transfers, PATCH the state to "paused". To resume transfers for a paused relationship, PATCH the state to "snapmirrored" or "in_sync". The entries "in_sync", "out_of_sync", and "synchronizing" are only applicable to relationships with a policy of type "sync". A PATCH call on the state change only triggers the transition to the specified state. You must poll on the "state", "healthy" and "unhealthy_reason" properties using a GET request to determine if the transition is successful. To automatically initialize the relationship when specifying "create_destination", set the state to "snapmirrored" for relationships with a policy of type "async" or "in_sync" for relationships with a policy of type "sync". |
| transfer | transfer | Basic information on the current transfer. |
| unhealthy_reason | array[snapmirror_error] | Reason the relationship is not healthy. It is a concatenation of up to four levels of error messages. |
| uuid | string | |

job_link

| Name | Type | Description |
|--------|------------------------|-------------------------------------------------------------------------------------------|
| _links | _links | |
| uuid | string | The UUID of the asynchronous job that is triggered by a POST, PATCH, or DELETE operation. |

error_arguments

| Name | Type | Description |
|---------|--------|------------------|
| code | string | Argument code |
| message | string | Message argument |

error

| Name | Type | Description |
|-----------|------------------------------------------|---------------------------------------------|
| arguments | array[error_arguments] | Message arguments |
| code | string | Error code |
| message | string | Error message |
| target | string | The target parameter that caused the error. |

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